TA-F561R/F661R

SERVICE MANUAL

AEP Model

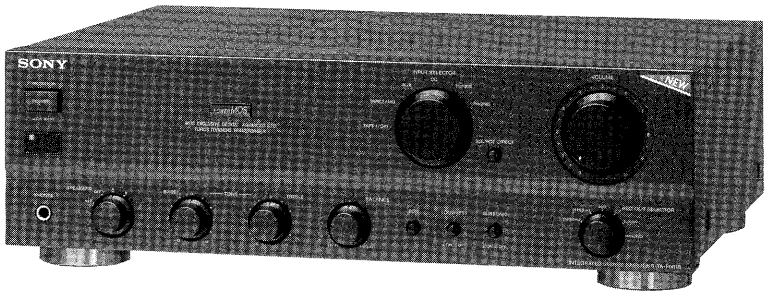

Photo : TA-F661R

SPECIFICATIONS

Amplifier

Power output (both channels driven simultaneously)

		TA-F661R	TA-F561R
DIN, 1 kHz	4 ohms	100 W + 100 W	90 W + 90 W
	8 ohms	70 W + 70 W	60 W + 60 W
20 Hz – 20 kHz	8 ohms	60 W + 60 W	50 W + 50 W

Input

Input jack	Jack type	Sensitivity	Impedance
PHONO	Phono	2.5 mV	50 kilohms
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	Phono	150 mV	20 kilohms

S/N

	TA-F661R	TA-F561R
PHONO A, 5 mV	94 dB	94 dB
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	105 dB	105 dB

Output

Output jack	Jack type	Output level/impedance
REC OUT	Phono jack	Voltage 150 mV Impedance 1 kilohm
SPEAKERS	—	4 – 16 ohms SPEAKERS A + B: 8 – 16 ohms
PHONES	Stereo phone jack	10 mW (at 8 ohms) Accepts low and high impedance headphones

Tone controls

	Response	Turnover frequency
BASS	±7 dB (100 Hz)	300 Hz
TREBLE	±7 dB (10 kHz)	3 kHz

Harmonic distortion — Less than 0.008 % at 10 W output

Intermodulation (IM) distortion (60 Hz : 7 kHz = 4:1) — Less than 0.008 % at 10 W output

Frequency response — PHONO: RIAA equalization curve ±0.5 dB
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD: 7 Hz – 100 kHz $^{+0}_{-3}$ dB

Residual noise — Less than 170 µV (network A)

Damping factor — 60 (8 ohms, 1 kHz)

– Continued on page 2 –

INTEGRATED STEREO AMPLIFIER

SONY®

General

System	Preamplifier: Low-noise, equalizer amplifier Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Power requirements	AC : 220–230 V~50/60Hz
Power consumption	TA-F661R: 200 W TA-F561R: 190 W
Dimensions	Approx. 430 × 135 × 375 mm (w/h/d) (17 × 5 3/8 × 14 7/8 inches)
Mass	TA-F661R: Approx. 7 kg (15 lb 7 oz) TA-F561R: Approx. 6.8 kg (14 lb 16 oz)
Supplied accessories	Remote commander RM-S312 (1) Sony SUM-3 (NS) batteries (2)

The above values are measured at 230 V AC.

Design and specifications are subject to change without notice.

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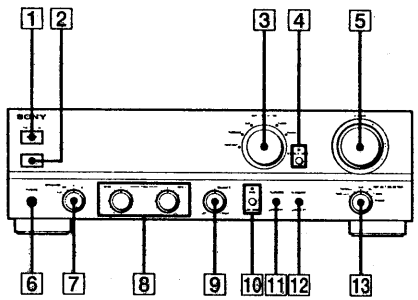
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



Identifying the Parts and Controls

Front Panel

1 POWER switch and PROTECTION indicator
Immediately after turning on the POWER switch, the PROTECTION indicator flashes, then goes off.

2 Remote control sensor

3 INPUT SELECTOR and indicators

4 SOURCE DIRECT button and indicator

5 VOLUME control

6 PHONES jack

7 SPEAKERS selector

8 TONE (BASS/TREBLE) controls

9 BALANCE control

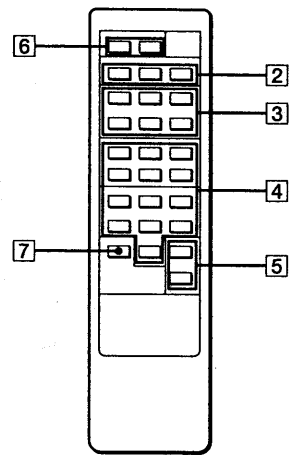
10 EON button and indicator

11 LOUDNESS button

12 SUBSONIC button

13 REC OUT SELECTOR

RM-S312



Identifying the Parts and Controls

Remote Commander

Supplied remote commander can control Sony equipment such as tuner, CD players, and tape decks.

2 TUNER operation buttons
TUNER: Select the TUNER mode.
PRESET +/– buttons: Select the preset station.

3 CD operation buttons
⏮/⏭: Automatic music sensor.
D. (Disc) SKIP: Disc skip (for CD player equipped with a multi-disc changer)
▶: The amplifier enters the CD mode and the CD player starts playback automatically.
■: Stop.
⏸: Pause.

4 TAPE 2 DECK A/DECK B operation buttons
◀◀/▶▶: Fast winding.
■: Stop.
◀: The amplifier enters the TAPE 2 mode and the tape deck starts reverse playback automatically.
▶: The amplifier enters the TAPE 2 mode and the tape deck starts forward playback automatically.
● + ▶: Start recording
● + ◀: Start recording in the reverse direction
⏸: Pause. (Only for DECK B)

5 VOL (Volume) +/– buttons

6 PHONO operation buttons
START: Pressing START automatically selects the PHONO mode on the amplifier and starts playback of the turntable system.
STOP: Stops playback of the turntable system.

7 DAT/TAPE 1 button
Selects the DAT or TAPE 1 mode.

SECTION 2
ELECTRICAL ADJUSTMENTS

Note :

1. DC BIAS adjustments should be made 30 seconds after the POWER switch is turned on (POWER ON).
2. After replacing the power transistors, DC BIAS adjustments should be made.

DC Bias Adjustment (with no signal input)

Setting :

Volume ··· minimum

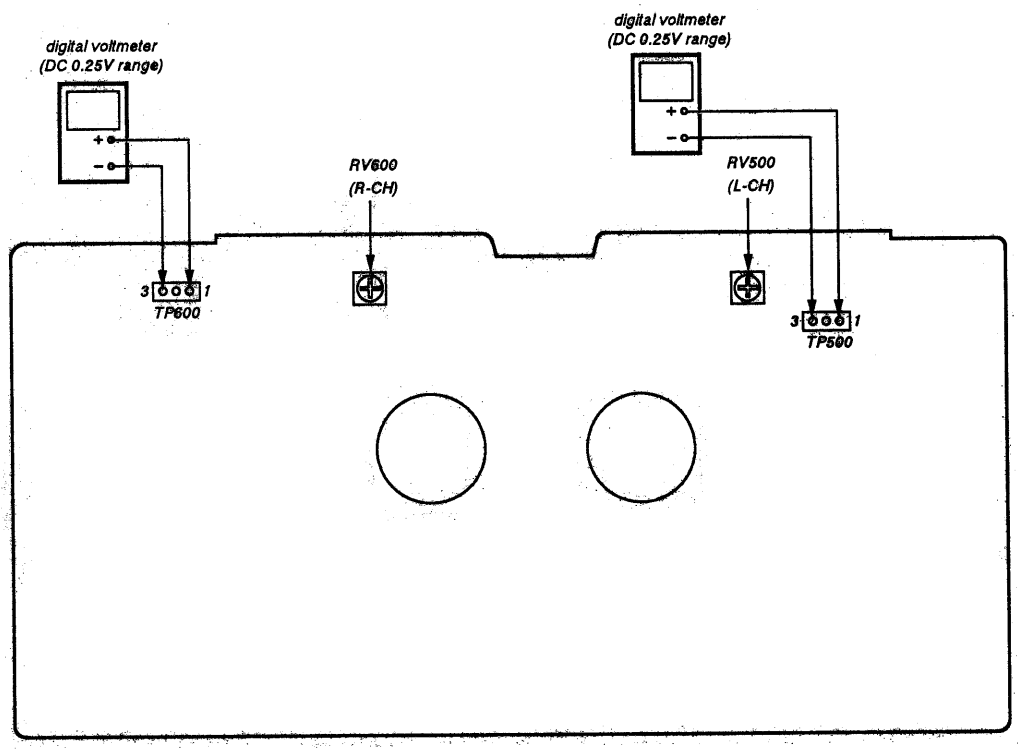
Procedure :

Adjust RV500 (L-ch) and RV600 (R-ch) so that the voltages across TP500 and TP600 become within the adjustment values.

Adjustment Value : 18mV ± 2mV

Adjustment Location :

【AMP B BOARD】 – Component side –



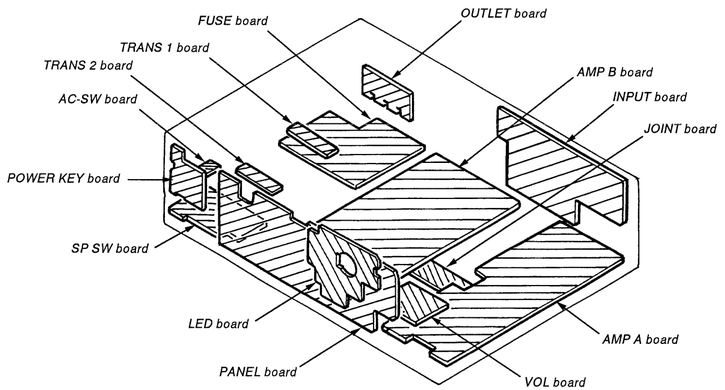
SECTION 3
EXPLANATION OF IC TERMINALS

IC701 TMP74C200BN

Pin No.	Pin Name	I/O	Function
1	RCL	O	Clock / Data: Serial data of EEPROM (X24C01).
2	RDT	I/O	
3	VOL UP	O	Up / Down: VR motor control signal. (Active: H, Stop: L-L, Brake: H-H)
4	VOL DOWN	O	
5	POWER	O	Power relay ON/OFF control signal. (ON: L)
6	MUTE	O	Mute control signal output when switching. (Mute: H)
7	LED OFF	O	LED display signal. (L: Function LED is turned on.)
8	S. MODE	I	SIRCS decode/mode switching signal. (Pull down to GND.)
9	–	I	Not used. (Pull down to GND.)
10	–	I	Not used. (Pull down to GND.)
11	SW0	I	Relativity position detection signal of rotary switch. (one of them terminal: L, the other terminal: H) Direction from SW0 to SW5, TUNER → CD → AUX → TAPE2 → TAPE1 → PHONO → TUNER → · · · · .
12	SW1	I	
13	SW2	I	
14	SW3	I	
15	SW4	I	
16	SW5	I	
17	PHONO	O	Function LED drive signal. (ON: L)
18	TUNER	O	
19	CD	O	
20	AUX	O	
21	Vss	–	GND terminal.
22	TAPE2	O	Function LED drive signal. (ON: L)
23	TAPE1	O	
24	VOLLED	O	Not used. (Pull down to GND.)
25	STANBY	O	Standby LED drive signal. (ON: L)
26	PW KEY	I	Power ON/OFF signal. (SW ON: L)
27	–	I	Not used (Open.)
28	–	I	Not used (Pull down to GND.)
29	MODE	I	Model mode switch signal. (Pull up to VDD.)
30	TEST	–	Test terminal. (Open)
31	XIN	–	Oscillation signal. 8MHz
32	XOUT	–	
33	RESET	I	Reset signal. (Reset: L)
34	HOLD	I	Cancellation of hold mode signal. (Start: H)
35	PROTECT	I	Protector detection signal. (Active: H)
36	EON IN	I	EON detection signal. (Switch ot TUNER, when H to L.)
37	SIRCS	I	SIRCS signal (Active: L)
38	T1	O	Not used. (Pull down to GND.)
39	SCE	O	Chip Enable / Data / Clock: Serial control signal to TC9174.
40	SDT	O	
41	SCK	O	
42	VDD	–	Power supply (+5V) terminal.

SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



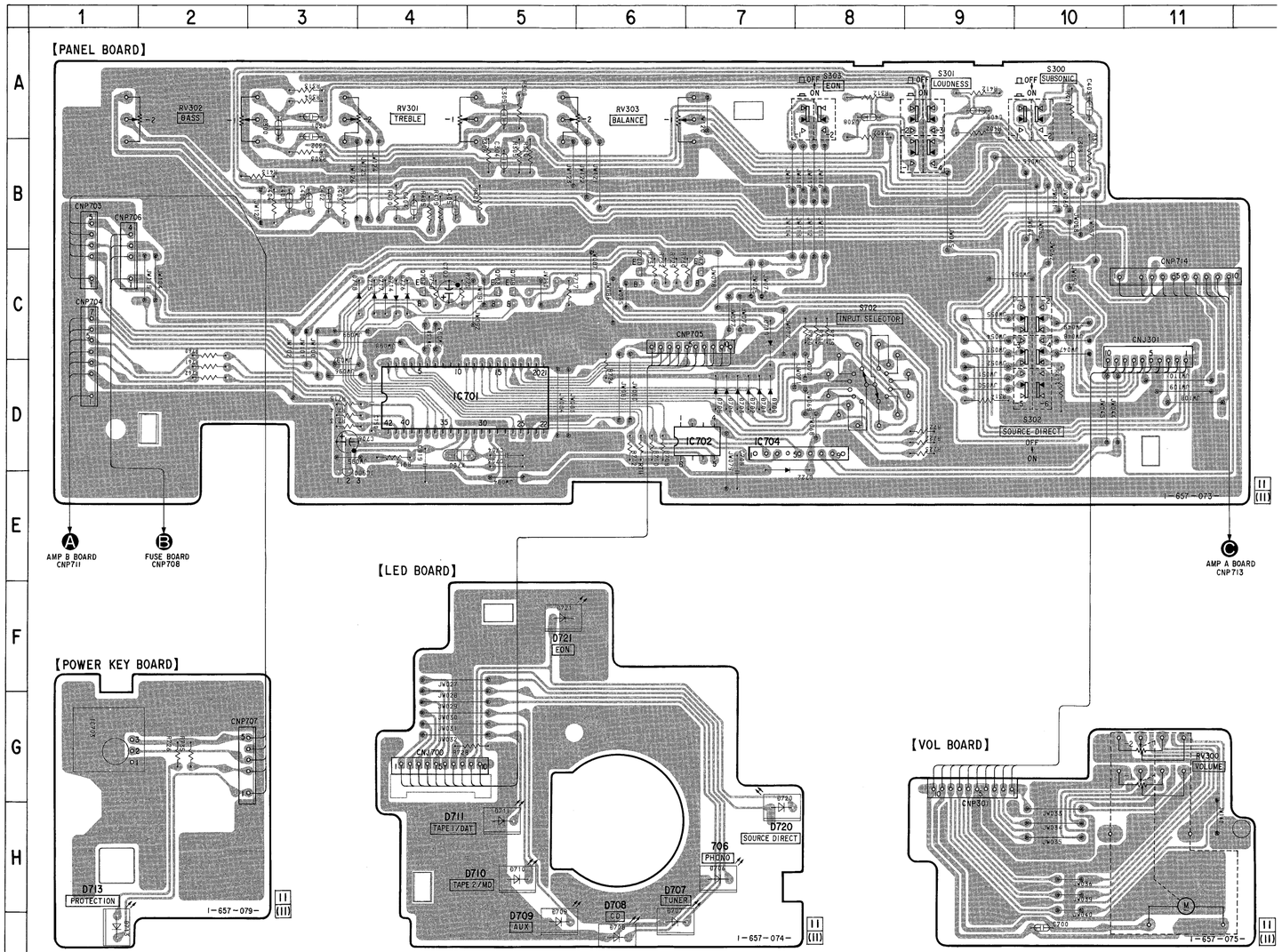
4-2. PRINTED WIRING BOARDS — PANEL SECTION —

• SEMICONDUCTOR LOCATION

Ref. No.	Location
D700	D - 7
D701	D - 7
D702	D - 7
D703	D - 7
D704	D - 7
D705	D - 7
D706	H - 7
D707	I - 6
D708	I - 6
D709	I - 5
D710	H - 5
D711	H - 5
D713	I - 1
D714	C - 4
D715	C - 4
D717	C - 4
D718	C - 4
D719	C - 7
D720	H - 7
D721	H - 5
D722	D - 7
D726	C - 4
IC701	D - 4
IC702	D - 7
IC703	G - 1
IC704	D - 7
IC900	E - 3
Q700	C - 6
Q707	C - 4
Q708	C - 5
Q709	C - 5
Q713	C - 7

Note:

- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.



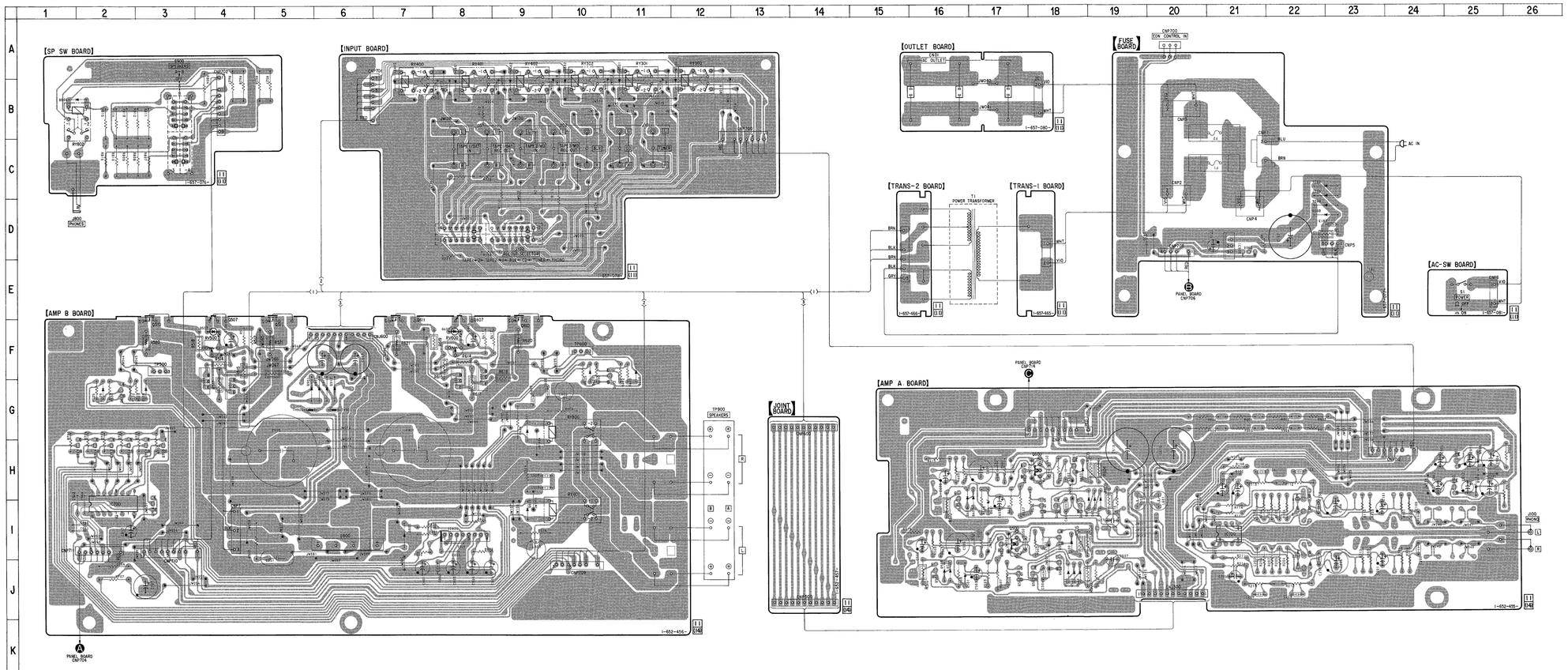
● SEMICONDUCTOR LOCATION

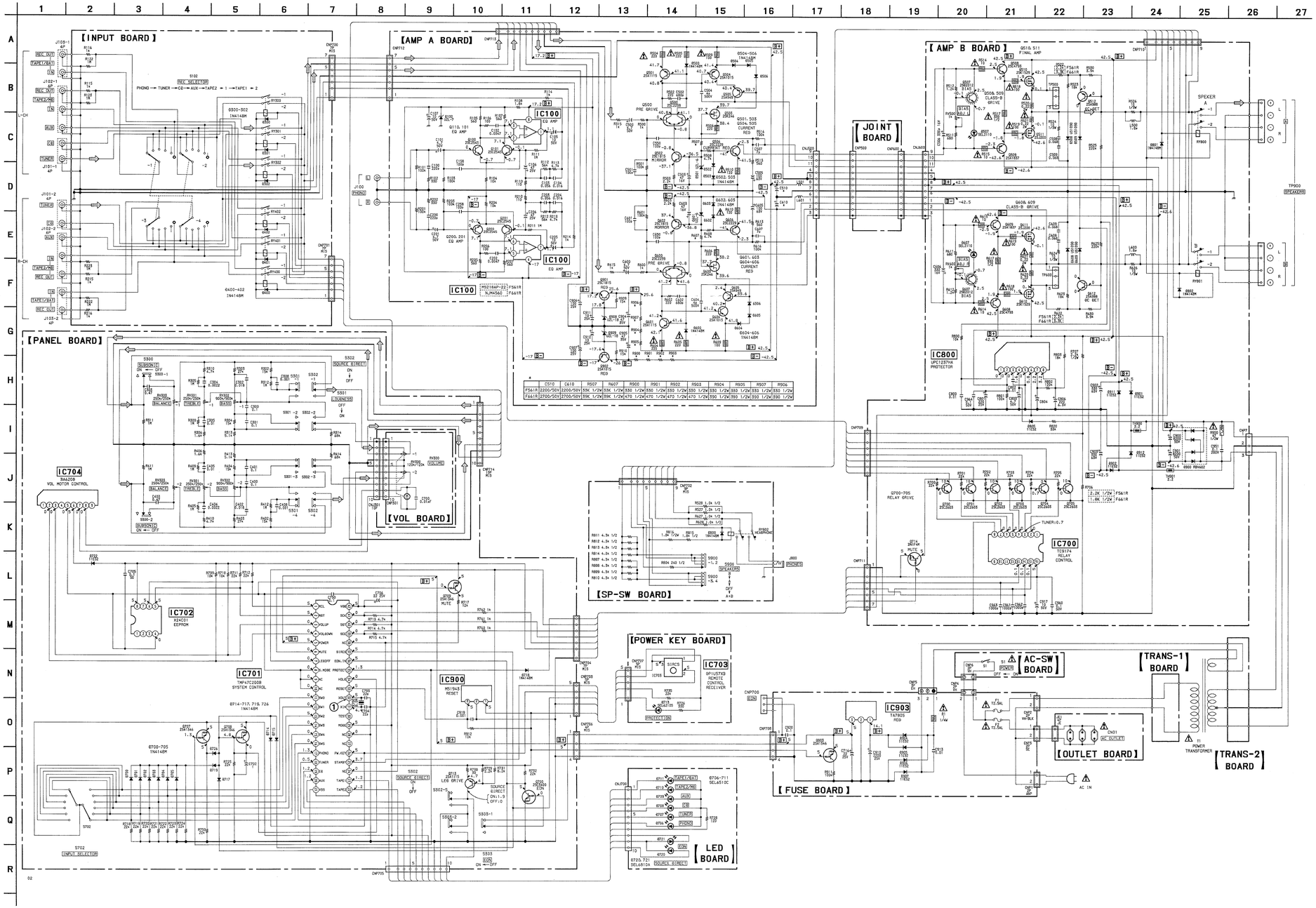
Ref. No.	Location	Ref. No.	Location
D100	H - 21	Q100	I - 22
D300	B - 12	Q101	I - 22
D301	B - 11	Q200	J - 22
D302	B - 10	Q201	I - 22
D400	B - 7	Q500	I - 17
D401	B - 8	Q501	I - 18
D402	B - 9	Q502	I - 17
D500	I - 18	Q503	J - 17
D501	J - 16	Q504	J - 18
D502	J - 16	Q505	J - 17
D503	J - 16	Q506	J - 16
D504	J - 18	Q507	F - 4
D505	J - 18	Q508	G - 4
D506	J - 18	Q509	G - 4
D507	F - 4	Q510	F - 3
D508	G - 3	Q511	F - 5
D509	G - 2	Q512	G - 2
D600	H - 18	Q600	H - 18
D601	I - 17	Q601	H - 18
D602	I - 17	Q603	H - 17
D603	I - 16	Q604	I - 18
D604	I - 19	Q605	I - 16
D605	I - 19	Q606	I - 18
D606	I - 18	Q607	F - 8
D607	F - 8	Q608	F - 8
D608	F - 11	Q609	G - 8
D609	F - 10	Q610	F - 9
D800	B - 1	Q611	F - 7
D801	G - 9	Q612	F - 10
D802	I - 9	Q700	H - 3
D805	I - 7	Q701	H - 3
D900	I - 6	Q702	H - 2
D901	G - 5	Q703	H - 2
D902	G - 6	Q704	H - 2
D904	D - 22	Q705	H - 2
D905	D - 22	Q714	I - 3
D906	C - 22	Q901	H - 25
D907	C - 22	Q902	H - 25
D908	H - 25	Q903	D - 21
D909	H - 25		
D911	G - 6		
D912	G - 6		
IC100	I - 21		
IC700	I - 2		
IC800	I - 8		
IC903	D - 21		

Note:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

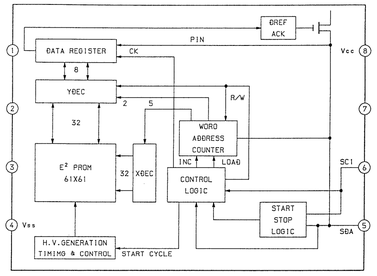
4-3. PRINTED WIRING BOARDS – AMP SECTION –



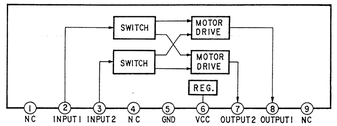


• IC BLOCK DIAGRAMS – PANEL SECTION –

IC702 X24C01P

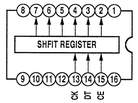


IC704 BA6208

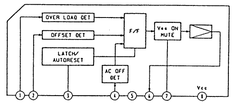


• IC BLOCK DIAGRAMS – AMP SECTION –

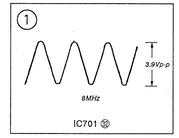
IC700 TC9174P



IC800 μPC1237HA



• WAVEFORM



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line
- B– : B– Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

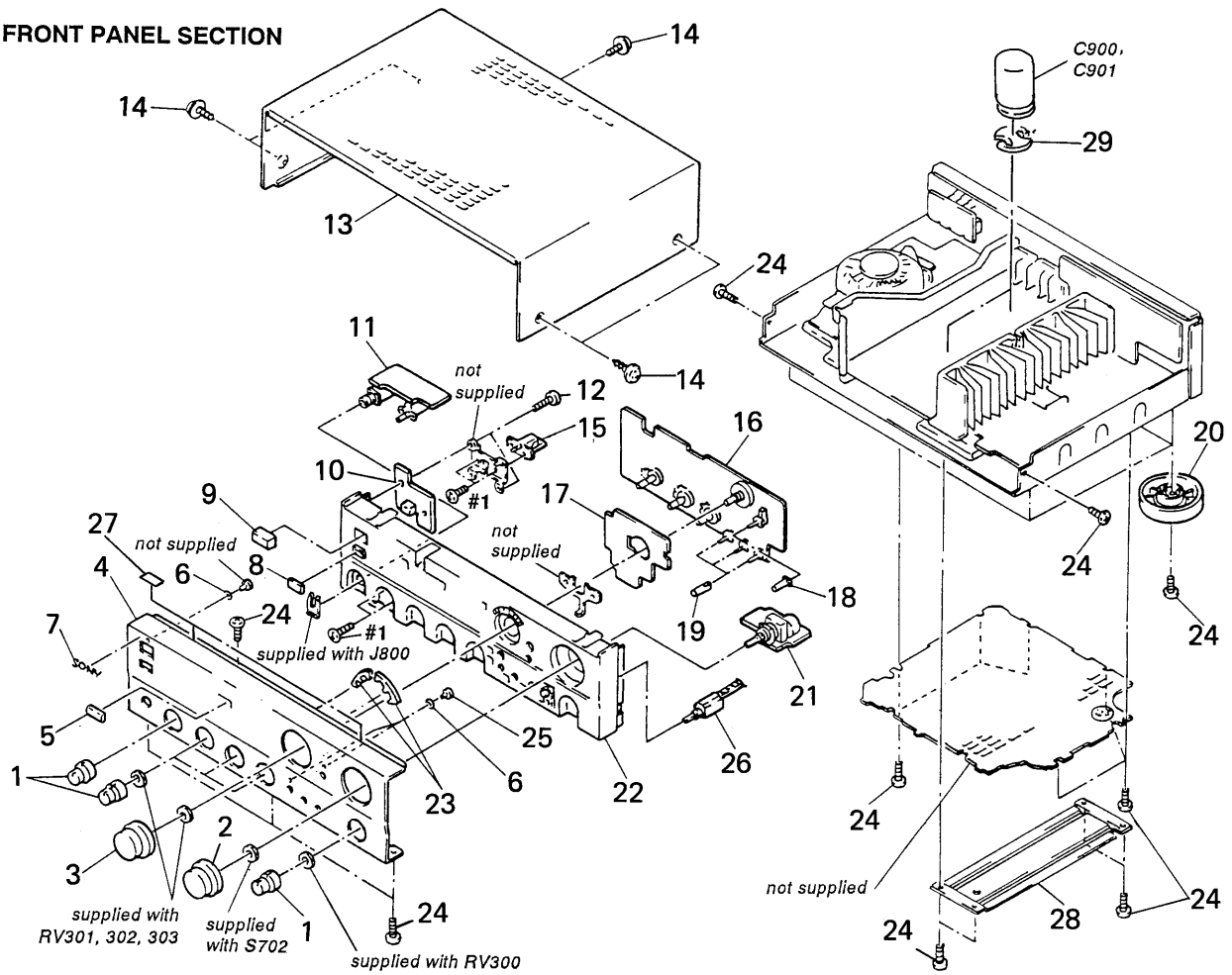
SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

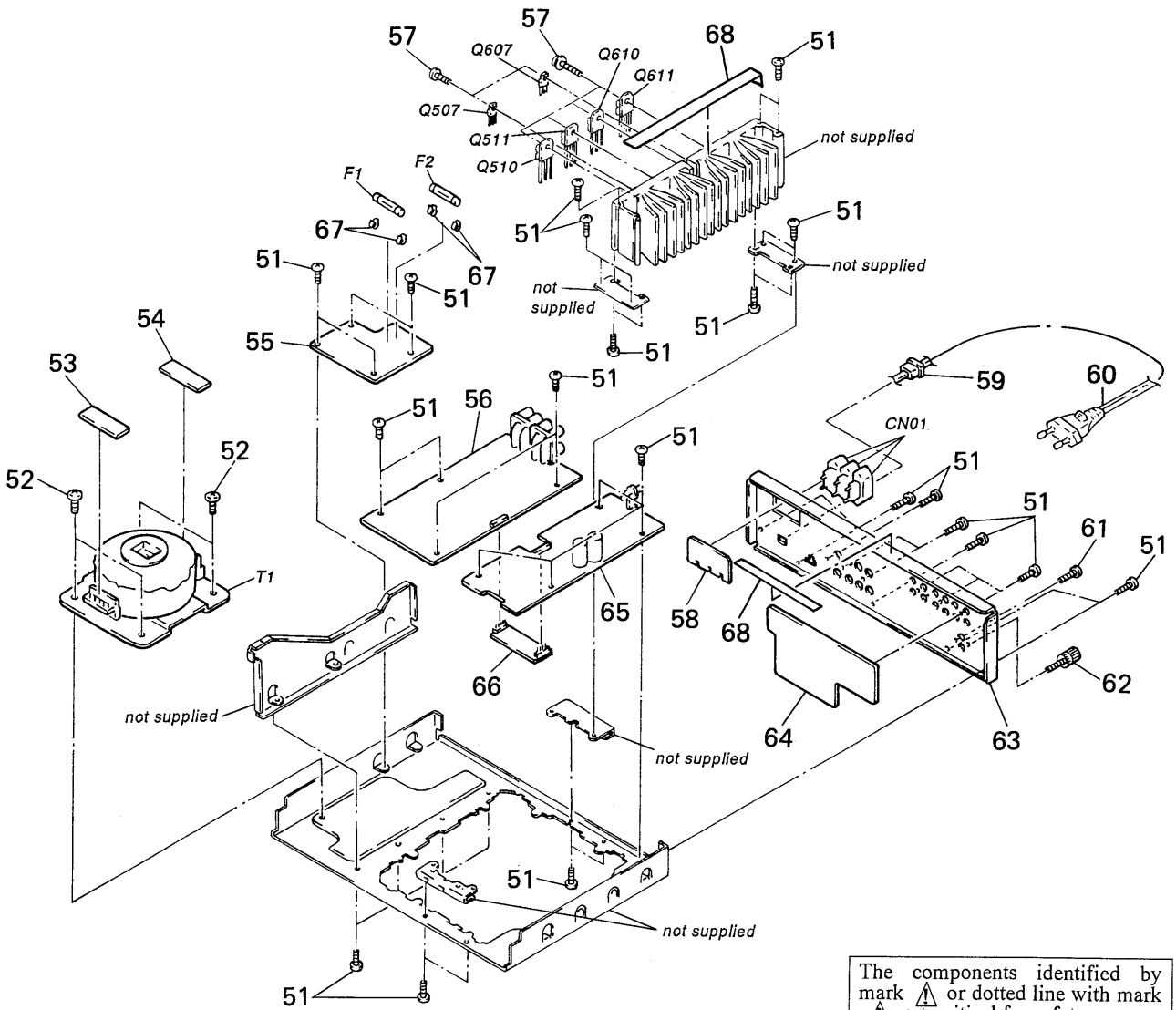
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-965-996-01	KNOB (TONE)	
2	X-4944-844-1	KNOB (VOL) ASSY	
3	4-966-003-01	KNOB (SEL)	
4	4-965-991-61	PANEL, FRONT (F661R)	
4	4-965-991-81	PANEL, FRONT (F561R)	
5	4-965-651-01	EMBLEM (MOS)	
* 6	4-927-881-01	SHEET, ADHESIVE	
7	4-942-568-01	EMBLEM (NO. 5), SONY	
8	4-931-911-01	FILTER	
9	4-917-460-01	KNOB, POWER	
* 10	1-657-079-11	POWER KEY BOARD	
* 11	1-657-076-11	SP SW BOARD	
12	4-969-221-01	SCREW (3×12)	
13	4-924-920-91	CASE	
14	3-704-366-01	SCREW (CASE) (M3×8)	

Ref. No.	Part No.	Description	Remark
* 15	1-657-081-11	AC-SW BOARD	
* 16	A-4378-175-A	PANEL BOARD, COMPLETE	
* 17	1-657-074-11	LED BOARD	
18	4-966-000-01	BUTTON (L)	
19	4-965-997-01	BUTTON (S)	
20	4-956-885-11	FOOT (F58175S2W)	
* 21	1-657-075-11	VOL BOARD	
22	4-974-890-02	BASE, PANEL	
23	4-965-999-01	INDICATOR (3)	
24	4-967-961-01	SCREW (3×8) (SPECIAL)	
25	4-938-518-01	INDICATOR (C)	
26	1-692-968-11	SWITCH, ROTARY (REC OUT SELSCTOR)	
27	9-911-830-XX	SHEET, HB	
28	4-974-528-01	BRACKET (BO-P)	
29	4-969-003-01	SPACER (DIA. 34)	

5-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	4-967-961-01	SCREW (3×8) (SPECIAL)	
52	4-967-960-01	SCREW (4×8)	
* 53	1-657-465-11	TRANS-1 BOARD	
* 54	1-657-466-11	TRANS-2 BOARD	
* 55	1-657-077-11	FUSE BOARD	
* 56	A-4378-171-A	AMP B BOARD, COMPLETE (F561R)	
* 56	A-4378-173-A	AMP B BOARD, COMPLETE (F661R)	
57	3-905-609-11	SCREW (TRANSISTOR)	
* 58	1-657-080-11	OUTLET BOARD	
* 59	3-703-244-00	BUSHING (2104), CORD	
⚠60	1-575-651-21	CORD, POWER	
61	3-704-515-41	SCREW (BV/RING)	
62	4-947-010-01	SCREW, FEEDER FIXED	
* 63	4-965-992-61	PANEL, BACK (F661R)	
* 63	4-965-992-81	PANEL, BACK (F561R)	
* 64	1-657-078-11	INPUT BOARD	

Ref. No.	Part No.	Description	Remark
* 65	A-4378-170-A	AMP A BOARD, COMPLETE (F561R)	
* 65	A-4378-172-A	AMP A BOARD, COMPLETE (F661R)	
* 66	1-652-457-11	JOINT BOARD	
67	1-533-293-11	FUSE HOLDER	
68	3-831-441-XX	FELT, PANEL	
⚠CN01	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠F1	1-532-286-00	FUSE (T2.5A)	
⚠F2	1-532-286-00	FUSE (T2.5A)	
Q507	8-729-209-15	TRANSISTOR 2SD2012	
Q510	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q511	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q607	8-729-209-15	TRANSISTOR 2SD2012	
Q610	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q611	8-729-232-46	TRANSISTOR 2SJ200-Y	
⚠T1	1-427-977-11	TRANSFORMER, POWER (F661R)	
⚠T1	1-427-978-11	TRANSFORMER, POWER (F561R)	

SECTION 6
ELECTRICAL PARTS LIST

AC-SW **AMP A**

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	1-657-081-11	AC-SW BOARD			
		**********			
		< CONNECTOR >			
CNP6	1-564-321-00	PIN, CONNECTOR 2P			
		< SWITCH >			
⚠S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)			
**********					
*	A-4378-170-A	AMP A BOARD, COMPLETE (F561R)			
*	A-4378-172-A	AMP A BOARD, COMPLETE (F661R)			
		**********			
		< CAPACITOR >			
C100	1-164-077-11	CERAMIC	220PF	10%	50V
C101	1-126-163-11	ELECT	4.7uF	20%	50V
C102	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C103	1-136-162-00	FILM	0.056uF	5%	50V
C104	1-137-471-11	FILM	0.016uF	5%	50V
C105	1-126-059-11	ELECT	10uF	20%	50V
C106	1-126-022-11	ELECT	47uF	20%	25V
C107	1-126-059-11	ELECT	10uF	20%	50V
C158	1-164-073-11	CERAMIC	100PF	10%	50V
C200	1-164-077-11	CERAMIC	220PF	10%	50V
C201	1-126-163-11	ELECT	4.7uF	20%	50V
C202	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C203	1-136-162-00	FILM	0.056uF	5%	50V
C204	1-137-471-11	FILM	0.016uF	5%	50V
C205	1-126-059-11	ELECT	10uF	20%	50V
C206	1-126-022-11	ELECT	47uF	20%	25V
C258	1-164-073-11	CERAMIC	100PF	10%	50V
C500	1-126-163-11	ELECT	4.7uF	20%	50V
C501	1-162-282-31	CERAMIC	100PF	10%	50V
C502	1-162-292-31	CERAMIC	680PF	10%	50V
C503	1-126-022-11	ELECT	47uF	20%	16V
C504	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C505	1-126-063-11	ELECT	100uF	20%	63V
C507	1-113-497-91	POLYSTYRENE	7PF	10%	50V
C510	1-126-057-11	ELECT	2200uF	20%	50V (F561R)
C510	1-109-871-12	ELECT	2700uF	20%	50V (F661R)
C550	1-164-073-11	CERAMIC	100PF	10%	50V
C600	1-126-163-11	ELECT	4.7uF	20%	50V
C601	1-162-282-31	CERAMIC	100PF	10%	50V
C602	1-162-292-31	CERAMIC	680PF	10%	50V
C603	1-126-022-11	ELECT	47uF	20%	16V
C604	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C605	1-126-063-11	ELECT	100uF	20%	63V
C607	1-113-497-91	POLYSTYRENE	7PF	10%	50V
C610	1-126-057-11	ELECT	2200uF	20%	50V (F561R)
C610	1-109-871-12	ELECT	2700uF	20%	50V (F661R)
C650	1-164-073-11	CERAMIC	100PF	10%	50V
C707	1-124-120-11	ELECT	220uF	20%	25V
C904	1-126-051-11	ELECT	47uF	20%	35V
C905	1-126-051-11	ELECT	47uF	20%	35V
C906	1-126-022-11	ELECT	47uF	20%	25V
C907	1-126-022-11	ELECT	47uF	20%	25V
C911	1-126-059-11	ELECT	10uF	20%	25V
C912	1-126-059-11	ELECT	10uF	20%	25V
C917	1-124-907-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNJ500	1-563-381-11	SOCKET, CONNECTOR 11P			
* CNP500	1-560-667-00	PIN, CONNECTOR 11P			
* CNP600	1-560-667-00	PIN, CONNECTOR 11P			
CNP712	1-766-269-11	PIN, CONNECTOR (PC BOARD) 7P			
CNP713	1-766-272-11	PIN, CONNECTOR (PC BOARD) 10P			
		< DIODE >			
D100	8-719-933-50	DIODE	HZS7C2L		
D500	8-719-987-63	DIODE	1N4148M		
D501	8-719-933-35	DIODE	HZS6A3L		
D502-506	8-719-987-63	DIODE	1N4148M		
D600	8-719-987-63	DIODE	1N4148M		
D601	8-719-933-35	DIODE	HZS6A3L		
D602-606	8-719-987-63	DIODE	1N4148M		
D908	8-719-002-09	DIODE	UZL-18M		
D909	8-719-002-09	DIODE	UZL-18M		

AMP A

Ref. No.	Part No.	Description	Remark
		< IC >	
IC100	8-759-636-74	IC M5218AP-22 (F561R)	
IC100	8-759-745-61	IC NJM4560D-D (F661R)	
		< JACK >	
J100	1-580-054-11	JACK, PIN 2P (PHONO)	
		< COIL >	
* L501	1-428-203-11	COIL, AIR-CORE	
* L601	1-428-203-11	COIL, AIR-CORE	
		< TRANSISTOR >	
Q100	8-729-354-52	TRANSISTOR 2SC2545	
Q101	8-729-354-52	TRANSISTOR 2SC2545	
Q200	8-729-354-52	TRANSISTOR 2SC2545	
Q201	8-729-354-52	TRANSISTOR 2SC2545	
Q500	8-729-620-17	TRANSISTOR 2SC2259-FG	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q503	8-729-201-56	TRANSISTOR 2SK246-GR2	
Q504	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q505	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6	
Q506	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6	
Q600	8-729-620-17	TRANSISTOR 2SC2259-FG	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q603	8-729-201-56	TRANSISTOR 2SK246-GR2	
Q604	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q605	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6	
Q606	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6	
Q901	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q902	8-729-201-53	TRANSISTOR 2SA1015-GR	
		< RESISTOR >	
R101	1-259-215-21	CARBON 100K 5% 1/4W	
R102	1-247-706-11	CARBON 330 5% 1/4W	
R103	1-259-215-21	CARBON 100K 5% 1/4W	
R104	1-247-725-11	CARBON 10K 5% 1/4W	
R105	1-247-710-11	CARBON 560 5% 1/4W	
R106	1-247-700-11	CARBON 100 5% 1/4W	
R107	1-247-710-11	CARBON 560 5% 1/4W	
R108	1-247-716-11	CARBON 1.8K 5% 1/4W	
R110	1-249-529-11	CARBON 110 5% 1/4W	
R111	1-249-995-11	CARBON 1M 5% 1/4W	
R112	1-249-844-11	CARBON 56K 5% 1/2W	
R113	1-249-689-11	CARBON 4.7K 5% 1/2W	
R114	1-259-167-21	CARBON 1K 5% 1/4W	
R201	1-259-215-21	CARBON 100K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R202	1-247-706-11	CARBON 330 5% 1/4W	
R203	1-259-215-21	CARBON 100K 5% 1/4W	
R204	1-247-725-11	CARBON 10K 5% 1/4W	
R205	1-247-710-11	CARBON 560 5% 1/4W	
R206	1-247-700-11	CARBON 100 5% 1/4W	
R207	1-247-710-11	CARBON 560 5% 1/4W	
R210	1-249-529-11	CARBON 110 5% 1/4W	
R211	1-249-995-11	CARBON 1M 5% 1/4W	
R212	1-249-844-11	CARBON 56K 5% 1/2W	
R213	1-249-689-11	CARBON 4.7K 5% 1/2W	
R214	1-259-167-21	CARBON 1K 5% 1/4W	
R315	1-259-167-21	CARBON 1K 5% 1/4W	
R415	1-259-167-21	CARBON 1K 5% 1/4W	
R500	1-259-167-21	CARBON 1K 5% 1/4W	
R501	1-259-215-21	CARBON 100K 5% 1/4W	
R502	1-247-704-11	CARBON 220 5% 1/4W	
R503	1-247-717-11	CARBON 2.2K 5% 1/4W	
⚠R504-506			
	1-247-704-11	CARBON 220 5% 1/4W F	
R507	1-249-709-11	CARBON 33K 5% 1/2W (F561R)	
R507	1-249-711-11	CARBON 39K 5% 1/2W (F661R)	
R508	1-247-721-11	CARBON 4.7K 5% 1/4W	
⚠R509	1-249-899-11	CARBON 100 5% 1/4W F	
⚠R510	1-247-701-11	CARBON 120 5% 1/4W F	
R513	1-247-710-11	CARBON 560 5% 1/4W	
R516	1-259-215-21	CARBON 100K 5% 1/4W	
R600	1-259-167-21	CARBON 1K 5% 1/4W	
R601	1-259-215-21	CARBON 100K 5% 1/4W	
R602	1-247-704-11	CARBON 220 5% 1/4W	
R603	1-247-717-11	CARBON 2.2K 5% 1/4W	
⚠R604-606			
	1-247-704-11	CARBON 220 5% 1/4W F	
R607	1-249-709-11	CARBON 33K 5% 1/2W (F561R)	
R607	1-249-711-11	CARBON 39K 5% 1/2W (F661R)	
R608	1-247-721-11	CARBON 4.7K 5% 1/4W	
⚠R609	1-249-899-11	CARBON 100 5% 1/4W F	
⚠R610	1-247-701-11	CARBON 120 5% 1/4W F	
R612	1-247-714-11	CARBON 1.2K 5% 1/4W	
R613	1-247-710-11	CARBON 560 5% 1/4W	
R616	1-259-215-21	CARBON 100K 5% 1/4W	
R900	1-247-745-11	CARBON 330 5% 1/2W (F561R)	
R900	1-247-747-11	CARBON 470 5% 1/2W (F661R)	
R901	1-247-745-11	CARBON 330 5% 1/2W (F561R)	
R901	1-247-747-11	CARBON 470 5% 1/2W (F661R)	
R902	1-247-745-11	CARBON 330 5% 1/2W (F561R)	
R902	1-247-747-11	CARBON 470 5% 1/2W (F661R)	
R903	1-247-745-11	CARBON 330 5% 1/2W (F561R)	
R903	1-247-747-11	CARBON 470 5% 1/2W (F661R)	
R904	1-247-745-11	CARBON 330 5% 1/2W (F561R)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMP A **AMP B**

Ref. No.	Part No.	Description			Remark
R904	1-247-746-11	CARBON	390	5%	1/2W (F661R)
R905	1-247-745-11	CARBON	330	5%	1/2W (F561R)
R905	1-247-746-11	CARBON	390	5%	1/2W (F661R)
R906	1-247-745-11	CARBON	330	5%	1/2W (F561R)
R906	1-247-746-11	CARBON	390	5%	1/2W (F661R)
R907	1-247-745-11	CARBON	330	5%	1/2W (F561R)
R907	1-247-746-11	CARBON	390	5%	1/2W (F661R)
R909	1-249-460-11	CARBON	15K	5%	1/4W
R910	1-249-460-11	CARBON	15K	5%	1/4W

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*	A-4378-171-A	AMP B BOARD, COMPLETE (F561R)			
*	A-4378-173-A	AMP B BOARD, COMPLETE (F661R)			

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< CAPACITOR >

C506	1-126-011-11	ELECT	330uF	20%	16V
C508	1-136-163-00	FILM	0.068uF	5%	50V
C509	1-136-163-00	FILM	0.068uF	5%	50V
C606	1-126-011-11	ELECT	330uF	20%	16V
C608	1-136-163-00	FILM	0.068uF	5%	50V
C609	1-136-163-00	FILM	0.068uF	5%	50V
C800	1-162-294-31	CERAMIC	0.001uF	10%	50V
C801	1-124-120-11	ELECT	220uF	20%	25V
C802	1-136-153-00	FILM	0.01uF	5%	50V
C803	1-126-963-11	ELECT	4.7uF	20%	50V
C804	1-104-664-11	ELECT	47uF	20%	10V (F561R)
C804	1-124-443-00	ELECT	100uF	20%	10V (F661R)
C806	1-104-666-11	ELECT	220uF	20%	6.3V
C900	1-109-869-11	ELECT	8200uF	20%	50V
C901	1-109-869-11	ELECT	8200uF	20%	50V
C902	1-126-065-11	ELECT	330uF	20%	63V
C903	1-126-065-11	ELECT	330uF	20%	63V
C951	1-106-391-12	MYLAR	0.1uF	5%	200V
C960	1-164-159-11	CERAMIC	0.1uF		50V
C961-963	1-162-294-31	CERAMIC	0.001uF	10%	50V
C964	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

* CNJ600	1-563-381-11	SOCKET, CONNECTOR 11P	
* CNP7	1-564-687-11	PIN, CONNECTOR 3P	
CNP709	1-766-269-11	PIN, CONNECTOR (PC BOARD)	7P
CNP710	1-766-271-11	PIN, CONNECTOR (PC BOARD)	9P
CNP711	1-766-269-11	PIN, CONNECTOR (PC BOARD)	7P

< DIODE >

D507	8-719-900-19	LED	SLR34UW5
D508	8-719-815-85	DIODE	1S1585
D509	8-719-815-85	DIODE	1S1585
D607	8-719-900-19	LED	SLR34UW5
D608	8-719-815-85	DIODE	1S1585
D609	8-719-815-85	DIODE	1S1585
D801	8-719-987-63	DIODE	1N4148M
D802	8-719-987-63	DIODE	1N4148M
D805	8-719-200-82	DIODE	11ES2
D900	8-719-302-38	DIODE	RBV-602-01
D901	8-719-200-82	DIODE	11ES2
D902	8-719-200-82	DIODE	11ES2
D911	8-719-200-82	DIODE	11ES2
D912	8-719-200-82	DIODE	11ES2

< IC >

IC700	8-759-202-07	IC	TC9174P
IC800	8-759-111-68	IC	uPC1237HA

< COIL >

L500	1-428-133-31	COIL, AIR-CORE
L600	1-428-133-31	COIL, AIR-CORE

< TRANSISTOR >

Q508	8-729-017-06	TRANSISTOR	2SC4793
Q509	8-729-017-05	TRANSISTOR	2SA1837
Q512	8-729-140-82	TRANSISTOR	2SA988-PAFAEA
Q608	8-729-017-06	TRANSISTOR	2SC4793
Q609	8-729-017-05	TRANSISTOR	2SA1837
Q612	8-729-140-82	TRANSISTOR	2SA988-PAFAEA
Q700-705	8-729-620-05	TRANSISTOR	2SC2603-EF
Q714	8-729-900-63	TRANSISTOR	DTA124ES

< RESISTOR >

R511	1-247-711-11	CARBON	680	5%	1/4W
R512	1-247-714-11	CARBON	1.2K	5%	1/4W
⚠R514	1-247-688-11	CARBON	10	5%	1/4W F
⚠R515	1-247-688-11	CARBON	10	5%	1/4W F
⚠R517	1-247-745-11	CARBON	330	5%	1/2W F
⚠R518	1-249-899-11	CARBON	100	5%	1/4W F
⚠R519	1-249-899-11	CARBON	100	5%	1/4W F
⚠R520	1-217-151-00	METAL PLATE	0.22		2W F
⚠R521	1-217-151-00	METAL PLATE	0.22		2W F
R522	1-249-421-11	CARBON	2.2K	5%	1/4W (F561R)
R522	1-249-423-11	CARBON	3.3K	5%	1/4W (F661R)
R523	1-249-432-11	CARBON	18K	5%	1/4W
R524	1-249-162-11	CARBON	10	5%	1/3W
R525	1-247-887-00	CARBON	220K	5%	1/4W
R526	1-249-162-11	CARBON	10	5%	1/3W
R530	1-249-424-11	CARBON	3.9K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMP B FUSE INPUT

Ref. No.	Part No.	Description			Remark
R611	1-247-711-11	CARBON	680	5%	1/4W
R612	1-247-714-11	CARBON	1.2K	5%	1/4W
⚠R614	1-247-688-11	CARBON	10	5%	1/4W F
⚠R615	1-247-688-11	CARBON	10	5%	1/4W F
⚠R617	1-247-745-11	CARBON	330	5%	1/2W F
⚠R618	1-249-899-11	CARBON	100	5%	1/4W F
⚠R619	1-249-899-11	CARBON	100	5%	1/4W F
⚠R620	1-217-151-00	METAL PLATE	0.22		2W F
⚠R621	1-217-151-00	METAL PLATE	0.22		2W F
R622	1-249-421-11	CARBON	2.2K	5%	1/4W (F561R)
R622	1-249-423-11	CARBON	3.3K	5%	1/4W (F661R)
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-162-11	CARBON	10	5%	1/3W
R625	1-247-887-00	CARBON	220K	5%	1/4W
R626	1-249-162-11	CARBON	10	5%	1/3W
R630	1-249-424-11	CARBON	3.9K	5%	1/4W
R700-705					
	1-249-433-11	CARBON	22K	5%	1/4W
R706	1-247-756-11	CARBON	2.2K	5%	1/2W (F561R)
R706	1-247-755-11	CARBON	1.8K	5%	1/2W (F661R)
R707	1-247-756-11	CARBON	2.2K	5%	1/2W
R800	1-249-429-11	CARBON	10K	5%	1/4W
R801	1-249-441-11	CARBON	100K	5%	1/4W
R802	1-247-881-00	CARBON	120K	5%	1/4W
R803	1-249-432-11	CARBON	18K	5%	1/4W
R820	1-249-431-11	CARBON	15K	5%	1/4W
⚠R950	1-212-974-00	FUSIBLE	47	5%	1/2W F
		< VARIABLE RESISTOR >			
RV500	1-241-761-11	RES, ADJ, CARBON 1K (BIAS L-CH)			
RV600	1-241-761-11	RES, ADJ, CARBON 1K (BIAS R-CH)			
		< RELAY >			
RY800	1-515-920-11	RELAY (24V)			
RY801	1-515-920-11	RELAY (24V)			
		< THERMISTOR >			
TH900	1-806-882-11	THERMISTOR, POSITIVE 2.2			
TH901	1-806-882-11	THERMISTOR, POSITIVE 2.2			
		< TEST PIN >			
* TP500	1-564-506-11	PLUG, CONNECTOR 3P			
* TP600	1-564-506-11	PLUG, CONNECTOR 3P			
* TP900	1-537-762-11	TERMINAL BOARD (SP) (SPEAKERS)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-657-077-11	FUSE BOARD			
		**********			
		< FUSE HOLDER >			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C716	1-126-233-11	ELECT	22uF	20%	50V
C910	1-124-563-11	ELECT	2200uF	20%	25V
C913	1-136-153-00	FILM	0.01uF	5%	50V
C920	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP1	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
* CNP2	1-564-321-21	PIN, CONNECTOR 2P			
CNP3	1-580-629-11	PIN, CONNECTOR 2P			
CNP4	1-564-321-00	PIN, CONNECTOR 2P			
* CNP5	1-564-506-11	PLUG, CONNECTOR 3P			
CNP700	1-566-212-11	PIN, CONNECTOR 3P			
CNP708	1-766-266-11	PIN, CONNECTOR (PC BOARD) 4P			
		< DIODE >			
D904-907					
	8-719-200-82	DIODE 11ES2			
		< FUSE >			
⚠F1	1-532-286-00	FUSE (T2.5A)			
⚠F2	1-532-286-00	FUSE (T2.5A)			
		< IC >			
IC903	8-759-231-53	IC TA7805S			
		< TRANSISTOR >			
Q903	8-729-900-63	TRANSISTOR DTA124ES			
		< RESISTOR >			
⚠R1	1-249-447-11	CARBON	1	5%	1/4W F
R911	1-249-441-11	CARBON	100K	5%	1/4W
**********					
*	1-657-078-11	INPUT BOARD			
		**********			
		< CONNECTOR >			
CNP700	1-766-269-11	PIN, CONNECTOR (PC BOARD) 7P			
CNP701	1-766-269-11	PIN, CONNECTOR (PC BOARD) 7P			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

INPUT JOINT LED OUTLET PANEL

Ref.No.	Part No.	Description				Remark
		< DIODE >				
D300-302						
	8-719-987-63	DIODE	1N4148M			
D400-402						
	8-719-987-63	DIODE	1N4148M			
		< JACK >				
* J101	1-573-142-11	JACK, PIN 4P (CD, TUNER)				
J102	1-568-978-11	JACK 6P (AUX, TAPE2/MD IN/REC OUT)				
* J103	1-573-142-21	JACK, PIN 4P (TAPE1/DAT IN/REC OUT)				
		< RESISTOR >				
R115	1-247-713-11	CARBON	1K	5%	1/4W	
R116	1-247-713-11	CARBON	1K	5%	1/4W	
R122	1-247-903-00	CARBON	1M	5%	1/4W	
R123	1-247-903-00	CARBON	1M	5%	1/4W	
R215	1-247-713-11	CARBON	1K	5%	1/4W	
R216	1-247-713-11	CARBON	1K	5%	1/4W	
R222	1-247-903-00	CARBON	1M	5%	1/4W	
R223	1-247-903-00	CARBON	1M	5%	1/4W	
		< RELAY >				
RY300-302						
	1-515-614-11	RELAY				
RY400-402						
	1-515-614-11	RELAY				
		< SWITCH >				
S102	1-571-115-11	SWITCH, SLIDE (REC OUT SELECTOR)				
**********						
*	1-652-457-11	JOINT BOARD				
		**********				
**********						
*	1-657-074-11	LED BOARD				
		*********				
		< DIODE >				
D706	8-719-303-02	LED	SEL2510C-D (PHONO)			
D707	8-719-303-02	LED	SEL2510C-D (TUNER)			
D708	8-719-303-02	LED	SEL2510C-D (CD)			
D709	8-719-303-02	LED	SEL2510C-D (AUX)			
D710	8-719-303-02	LED	SEL2510C-D (TAPE2/MD)			
D711	8-719-303-02	LED	SEL2510C-D (TAPE1/DAT)			
D720	8-719-301-49	LED	SEL2810A (SOURCE DIRECT)			
D721	8-719-301-49	LED	SEL2810A (EON)			

Ref.No.	Part No.	Description				Remark
		< RESISTOR >				
R728	1-249-406-11	CARBON	120	5%	1/4W	
**********						
*	1-657-080-11	OUTLET BOARD				
		**********				
		< CONNECTOR >				
⚠CN01	1-526-794-11	OUTLET, AC (AC OUTLET)				
**********						
*	A-4378-175-A	PANEL BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C300	1-136-165-00	FILM	0.1uF	5%	50V	
C301	1-136-165-00	FILM	0.1uF	5%	50V	
C302	1-136-156-00	FILM	0.018uF	5%	50V	
C303	1-136-173-00	FILM	0.47uF	5%	50V	
C304	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C305	1-136-153-00	FILM	0.01uF	5%	50V	
C308	1-130-471-00	MYLAR	0.001uF	5%	50V	
C400	1-136-165-00	FILM	0.1uF	5%	50V	
C401	1-136-165-00	FILM	0.1uF	5%	50V	
C402	1-136-156-00	FILM	0.018uF	5%	50V	
C403	1-136-173-00	FILM	0.47uF	5%	50V	
C404	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C405	1-136-153-00	FILM	0.01uF	5%	50V	
C408	1-130-471-00	MYLAR	0.001uF	5%	50V	
C702	1-124-903-11	ELECT	1uF	20%	50V	
C703	1-162-207-31	CERAMIC	22PF	5%	50V	
C704	1-162-207-31	CERAMIC	22PF	5%	50V	
C705	1-164-159-11	CERAMIC	0.1uF		50V	
C706	1-126-233-11	ELECT	22uF	20%	50V	
C750	1-164-159-11	CERAMIC	0.1uF		50V	
C919	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
* CNJ301	1-568-451-11	HOUSING, CONNECTOR (PC BOARD) 10P				
* CNJ700	1-691-244-11	SOCKET, CONNECTOR 10P				
CNP703	1-766-267-11	PIN, CONNECTOR (PC BOARD) 5P				
CNP704	1-766-269-11	PIN, CONNECTOR (PC BOARD) 7P				
CNP705	1-766-257-11	PIN, CONNECTOR (PC BOARD) 10P				
CNP706	1-766-266-11	PIN, CONNECTOR (PC BOARD) 4P				
CNP714	1-766-272-11	PIN, CONNECTOR (PC BOARD) 10P				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PANEL | POWER KEY

Ref.No.	Part No.	Description				Remark
		< DIODE >				
D700-705						
	8-719-987-63	DIODE	1N4148M			
D714	8-719-987-63	DIODE	1N4148M			
D715	8-719-987-63	DIODE	1N4148M			
D717-719						
	8-719-987-63	DIODE	1N4148M			
D722	8-719-200-82	DIODE	11ES2			
D726	8-719-987-63	DIODE	1N4148M			
		< IC >				
IC701	8-759-343-64	IC	TMP47C200BN			
IC702	8-759-188-67	IC	X24C01P-S			
IC704	8-759-962-08	IC	BA6208			
IC900	8-759-635-63	IC	M51943BSL			
		< TRANSISTOR >				
Q700	8-729-900-36	TRANSISTOR	DTC124ES			
Q707-709						
	8-729-900-63	TRANSISTOR	DTA124ES			
Q713	8-729-119-76	TRANSISTOR	2SA1175-HFE			
		< RESISTOR >				
R302	1-259-456-11	CARBON	15K	5%	1/6W	
R303	1-259-462-11	CARBON	27K	5%	1/6W	
R304	1-259-456-11	CARBON	15K	5%	1/6W	
R305	1-259-500-11	CARBON	1M	5%	1/6W	
R306	1-259-433-11	CARBON	1.6K	5%	1/6W	
R309	1-259-500-11	CARBON	1M	5%	1/6W	
R310	1-259-444-11	CARBON	4.7K	5%	1/6W	
R311	1-259-500-11	CARBON	1M	5%	1/6W	
R312	1-259-500-11	CARBON	1M	5%	1/6W	
R313	1-259-445-11	CARBON	5.1K	5%	1/6W	
R314	1-259-472-11	CARBON	68K	5%	1/6W	
R402	1-259-456-11	CARBON	15K	5%	1/6W	
R403	1-259-462-11	CARBON	27K	5%	1/6W	
R404	1-259-456-11	CARBON	15K	5%	1/6W	
R405	1-259-500-11	CARBON	1M	5%	1/6W	
R406	1-259-433-11	CARBON	1.6K	5%	1/6W	
R409	1-259-500-11	CARBON	1M	5%	1/6W	
R410	1-259-444-11	CARBON	4.7K	5%	1/6W	
R411	1-259-500-11	CARBON	1M	5%	1/6W	
R412	1-259-500-11	CARBON	1M	5%	1/6W	
R413	1-259-445-11	CARBON	5.1K	5%	1/6W	
R414	1-259-472-11	CARBON	68K	5%	1/6W	
R709	1-249-429-11	CARBON	10K	5%	1/4W	
R710	1-249-429-11	CARBON	10K	5%	1/4W	
R711	1-249-433-11	CARBON	22K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R712	1-249-433-11	CARBON	22K	5%	1/4W	
R713-715						
	1-249-425-11	CARBON	4.7K	5%	1/4W	
R717	1-249-430-11	CARBON	12K	5%	1/4W	
R718-725						
	1-249-433-11	CARBON	22K	5%	1/4W	
R729	1-249-421-11	CARBON	2.2K	5%	1/4W	
R730	1-247-794-11	CARBON	30	5%	1/4W	
R731	1-249-428-11	CARBON	8.2K	5%	1/4W	
R732	1-249-433-11	CARBON	22K	5%	1/4W	
R750	1-249-433-11	CARBON	22K	5%	1/4W	
R760-762						
	1-249-417-11	CARBON	1K	5%	1/4W	
R912	1-249-429-11	CARBON	10K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-223-934-11	RES, VAR, CARBON 250K/250K (TREBLE)				
RV302	1-223-935-11	RES, VAR, CARBON 900K/900K (BASS)				
RV303	1-223-933-11	RES, VAR, CARBON 250K/250K (BALANCE)				
		< SWITCH >				
S300	1-571-112-21	SWITCH, PUSH (1 KEY) (SUBSONIC)				
S301	1-762-387-11	SWITCH, PUSH (LOUDNESS)				
S302	1-572-642-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)				
S303	1-571-112-21	SWITCH, PUSH (1 KEY) (EON)				
S702	1-692-967-11	SWITCH, ROTARY (INPUT SELECTOR)				
		< VIBRATOR >				
X700	1-579-223-11	OSCILLATOR, CERAMIC (8MHz)				
**********						
*	1-657-079-11	POWER KEY BOARD				
		**********				
		< CONNECTOR >				
CNP707	1-766-267-11	PIN, CONNECTOR (PC BOARD) 5P				
		< DIODE >				
D713	8-719-313-43	LED	SEL6210S-TH10 (PROTECTION)			
		< IC >				
IC703	8-749-923-43	IC	GP1U57XB			
		< RESISTOR >				
R726	1-249-411-11	CARBON	330	5%	1/4W	
R735	1-249-433-11	CARBON	22K	5%	1/4W	
**********						

SP SW **TRANS 1** **TRANS 2** **VOL**

Ref.No.	Part No.	Description			Remark
*	1-657-076-11	SP SW BOARD			
		**********			
		< CONNECTOR >			
CNP702	1-766-271-11	PIN, CONNECTOR (PC BOARD) 9P			
		< DIODE >			
D800	8-719-987-63	DIODE 1N4148M			
		< JACK >			
J800	1-750-162-61	JACK (LARGE TYPE) (PHONES)			
		< RESISTOR >			
R527	1-247-752-11	CARBON	1K	5% 1/2W	
R528	1-247-752-11	CARBON	1K	5% 1/2W	
R627	1-247-752-11	CARBON	1K	5% 1/2W	
R628	1-247-752-11	CARBON	1K	5% 1/2W	
R804	1-247-225-00	CARBON	240	5% 1/2W	
R807-814					
	1-247-255-00	CARBON	4.3K	5% 1/2W	
R815	1-247-755-11	CARBON	1.8K	5% 1/2W	
R816	1-247-755-11	CARBON	1.8K	5% 1/2W	
		< RELAY >			
RY802	1-515-614-11	RELAY			
		< SWITCH >			
S900	1-692-147-11	SWITCH, ROTARY SLIDE (SPEAKERS)			
**********					
*	1-657-465-11	TRANS-1 BOARD			
		**********			
**********					
*	1-657-466-11	TRANS-2 BOARD			
		**********			
**********					
*	1-657-075-11	VOL BOARD			
		*********			
		< CAPACITOR >			
C700	1-136-153-00	FILM	0.01uF	5% 50V	
		< CONNECTOR >			
* CNP301	1-568-455-11	PIN, CONNECTOR (PC BOARD) 10P			

Ref.No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV300	1-223-932-11	RES, VAR, CARBON 120K/120K (VOLUME)	
**********			
		MISCELLANEOUS	
		**********	
26	1-692-968-11	SWITCH, ROTARY (REC OUT SELSCTOR)	
⚠60	1-575-651-21	CORD, POWER	
⚠F1	1-532-286-00	FUSE (T2.5A)	
⚠F2	1-532-286-00	FUSE (T2.5A)	
Q507	8-729-209-15	TRANSISTOR 2SD2012	
Q510	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q511	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q607	8-729-209-15	TRANSISTOR 2SD2012	
Q610	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q611	8-729-232-46	TRANSISTOR 2SJ200-Y	
⚠T1	1-427-977-11	TRANSFORMER, POWER (F661R)	
⚠T1	1-427-978-11	TRANSFORMER, POWER (F561R)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-107-11	REMOTE COMMANDER (RM-S312)	
	3-798-913-11	MANUAL, INSTRUCTION (ENGLISF, FRENCH, SPANISH, PORTUGUESE) (AEP, UK)	
	3-798-913-21	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP, UK)	
	3-798-913-31	MANUAL, INSTRUCTION (GERMAN) (G)	
	3-798-913-41	MANUAL, INSTRUCTION (DANISH, FINNISH)	
	4-941-762-11	COVER (MLY), BATTERY (for RM-S312)	
*	4-967-239-01	CUSHION	
*	4-976-658-01	INDIVIDUAL CARTON (F561R)	
*	4-976-659-01	INDIVIDUAL CARTON (F661R)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-548-09	SCREW +BVTT 3×8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-960-218-11

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Home A&V Products Div.

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